OIPE

RAW SEQUENCE LISTING DATE: 12/05/2001 PATENT APPLICATION: US/09/993,180 TIME: 11:53:53

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Output Set: N:\CRF3\11212001\1993180.raw

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RAW SEQUENCE LISTING

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Input Set : A:\es.txt

Output Set: N:\CRF3\11212001\I993180.raw

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	72	Ser	Lys	Asp	Leu	Thr	Leu	Lys	Met	Gly	Ser	Ala	Leu	Phe	Val	Lys	Lys	
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		σασ	cta	caσ	ctg	cag	σca	aat	ttc	tta	aac	aat	qtc	aaq	aqq	ctq	tat	589
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	0.2	Hic	Tlo	Dho	Phe	Tuc	λla	Lve	Trn	Glu	Lve	Pro	Phe	His	Len	Glu	Tvr	
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	99	gtc	ccc	atg	atg	cac	cag	aaa	gag	cag	ttc	gct	ttt	ggg	gtg	gat	aca	877
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	101 103 104 105 107 108 109 111 112 113 115 116 121 123 124 125 127	gco Ala ago Arg	tto tto tto tto te tto Try 320 cto Leu Asi	g aad the photograph of the ph	t gto t gto 290 a gco r Ala 5 a gag e Glu thr t gat a Asp	ttts Phe 275 ctc Leu) aga Arg yal val cttt ttt Phe 355 cc cac	260 gtg 2 yal 3 cct a aca Thi The Cct Cct Sei Sei Caag	ago Ser Leu ato e Ile 325 coo Gar Gly	g cag g cag g ata	y atom Met y ggo 295 a aao 295 a aao 295 a atom Aro	gat Asp 280 aag Lys Trp ttt Phe Gly aag Lys 360 gat	265 tac	de aage Arg agg agg agg agg agg agg agg agg agg a	g ggas Gly g caa g Glr c tca s Sen 31: t tct e Sen a aat n Asn c tcc p Sen t gaa	a gat y Asp a cto 300 a cto c Leo t gco r Ala t gco c tco c	geo p Ala 285 g gaa g gaa g cag c tot a Ser c ttt a Phe g cag g ggo	270 gtg yal Cag Gln aaa Lys tac Tyr gac Asp 350 gtt Val	973 1021 1069 1117
	101 103 104 105 107 108 109 111 112 113 115 116 117 119 121 123 124 125 127 128	gco Ala ago Arg	tto tto tto tto te tto Try 320 cto Leu Asi	g aad the photograph of the ph	t gtc t gtc 290 a gcc r Ala 5 a gag e Glu t gat a Asp a acc a Thr	ttts Phe 275 ctc Leu caga Arg y Val catc Ile tttt Phe 355 cacc His	260 gtg 2 yal 3 cct a aca Thi The Cct Cct Sei Sei Caag	ago Ser Leu ato e Ile 325 coo Gar Gly	g cag g cag g ata	g atom Met ggo aga aaga Lys a atom Aro	g gat Asp 280 aag Lys Trp 1 ttt Phe 1 gg0 1 aag 1 Lys 360 1 gat 1 Asp	265 tac	de aage Arg agg agg agg agg agg agg agg agg agg a	g ggas Gly g caa g Glr c tca s Sen 31: t tct e Sen a aat n Asn c tcc p Sen t gaa	a gat y Asp a cto 300 a cto c Leo t goo t Ala c cto c Leo c Leo a gao a Glo	geo p Ala 285 g gaa g gaa g gaa g cag g cag g cag g cag g cag g gg g Gly	270 gtg Val Cag Gln Aaa Lys tac Tyr Gac Asp 350 gtt Val	973 1021 1069 1117 1165
	101 103 104 105 107 108 109 111 112 113 115 116 117 119 121 123 124 125 127 128 129	gco Ala ago Arg	tto tto Phe tto Lev Try 320 cto Lev aat Ass	y aad a state phe y to a so y ata o Ileo y gaa a so y ata o Ileo y gaa a	t gtc t gtc 290 a gcc r Ala 5 a gage e Glu t gat t gat a Asp a acc a Thr	ttts Phe 275 ctc Leu caga Arg y Val catc Ile tttt Phe 355 cacc His	260 gtg 2 gtg 2 val 3 cct a aca y Thi Phe Cct a tct Sei a ag 5 Lys	g ctg Let c ago Ser a ctg c Let g atce g atc	g cag i Glr c aag g ata i Ile 310 c ccc Pro i aag i Lys i att i Ile val	g atom Met ggg agg agg agg agg agg atom Arc	g gat 280 280 280 280 280 280 280 280 280 280	265 tac tac Tyr ate Met gage Ser tac Ser ate A	de aage Arg Asg Asg Asg Asg Asg Asg Asg Asg Asg As	g ggas Gly g caa g Glr c tca s Ser 31: t tct e Ser 0 a aat n Asr c tcc p Ser t gaa r Gl	a gat y Asp a cto 300 a cto c Leo t gco c Ala c cto c Leo a gao a Glo 380	geo p Ala 285 g gaa g gaa g cag g cag g cag g cag g cag g cag g cag g cag g cag	270 gtg Val Gln aaa Lys tac Tyr gac Asp 350 gtt Val Gact Thr	973 1021 1069 1117 1165 1213
	101 103 104 105 107 108 109 111 112 113 115 116 117 119 121 123 124 125 127 128 129	gco Ala ago Arg	tto tto Phe tto Lev Try 320 cto Lev aat Ass	y aad a state phe y to a so y ata o Ileo y gaa a so y ata o Ileo y gaa a	t gtc t gtc 290 a gcc r Ala 5 a gage e Glu t gat t gat a Asp a acc a Thr	ttts Phe 275 ctc Leu caga Arg y Val catc Ile tttt Phe 355 cacc His	260 gtg 2 gtg 2 val 3 cct a aca y Thi Phe Cct a tct Sei a ag 5 Lys	g ctg Let c ago Ser a ctg c Let g atce g atc	g cag i Glr c aag g ata i Ile 310 c ccc Pro i aag i Lys i att i Ile val	g atom Met ggg agg agg agg agg agg atom Arc	g gat 280 280 280 280 280 280 280 280 280 280	265 tac tac Tyr ate Met gage Ser tac Ser ate A	de aage Arg Asg Asg Asg Asg Asg Asg Asg Asg Asg As	g ggas Gly g caa g Glr c tca s Ser 31: t tct e Ser 0 a aat n Asr c tcc p Ser t gaa r Gl	a gat y Asp a cto 300 a cto c Leo t gco c Ala c cto c Leo a gao a Glo 380	geo p Ala 285 g gaa g gaa g cag g cag g cag g cag g cag g cag g cag g cag g cag	270 gtg yal Cag Gln aaa Lys tac Tyr gac Asp 350 gtt Val	973 1021 1069 1117 1165

RAW SEQUENCE LISTING DATE: 12/05/2001 PATENT APPLICATION: US/09/993,180 TIME: 11:53:53

Input Set : A:\es.txt

Output Set: N:\CRF3\11212001\1993180.raw

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136	Gly	Pro	Ser	Tyr	Phe	Thr	Val	. Ser	Phe	Asr	ı Arc	Thi	Phe	Lei	ı Met	. Met	1303
137		400	1				405		*		-	410					
139	att	aca	aat	aaa	gcc	aca	gac	ggt	att	cto	: ttt	cta	qqq	aaa	ata	gaa	1357
140	Ile	Thr	Asn	Lys	Ala	Thr	Asp	Gly	Ile	. Leu	Phe	e Leu	Gly	Lys	. Val	Glu	
141	415					420					425	5				430	
143	aat	CCC	act	aaa	tcc	tag	gtgg	gaa	atgg	cctg	rtt a	acto	atgg	c ac	attq	ctaa	1412
144	Asn	Pro	Thr	Lys	Ser												
145					435												
147	tgc	acaa	gaa	ataa	caaa	cc a	cato	cctc	t tt	ctgt	tctg	g agg	gtgc	att	tgac	cccagt	1472
149	gga	gctg	gat	tcgc	tggc	ag g	gatg	ccac	t to	caag	gcto	aat	cacc	aaa	ccat	caacag	1532
151	51 ggaccccagt cacaagccaa cacccattaa ccccagtcag tgcccttttc cacaaattct 53 cccaggtaac tagcttcatg ggatgttgct gggttaccat atttccattc cttggggctc															1592	
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15/	57 attcaataaa actaaaatat gaaaaaaaaa aaaaaaaaaa															1766	
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	<21					o sa	pıen	S									
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168	1	GIII	GIY	GIII	<u>сту</u> 5	Arg	arg	Arg	GIY		Cys	Lys	Asp	Ile	Phe	Cys	
		Luc	Mot	λla	-	m	т о	M	a 1	10	.	51			15	_	
172	261	шуз	Met	20	ser	тут	ьeu	туг	25	val	Leu	Pne	Ala		Gly	Leu	
	Cvs	Δla	Pro		ጥ፣፣	Cvc	Val	Cor		7. 1 a	7 ~ ~	31	D	30	Ala		
176	015	1114	35	110	- y -	Cys	Val	40	PIU	нта	ASII	Ald		ser	Ата	Tyr ·	
	Pro	Ara		Ser	Ser	Thr	T.vg		Thr	Dro	λla	Sor	45	17 - 1	Tyr	Com	
180		50		001	001	1111	55	DCI	1111	rio	Ата	60	GIII	val	т Ут	ser	
183	Leu	Asn	Thr	Asp	Phe	Ala		Arσ	Leu	Tvr	Ara		T.A.II	Va 1	Leu	Glu	
184	65			E		70		*** 9	LCu	-1-	75	nrg	пец	Val	neu	80	
187	Thr	Pro	Ser	Gln	Asn	Ile	Phe	Phe	Ser	Pro		Ser	Va1	Ser	Thr		
188					85					90		001		DCI	95	DCI	
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203	Asp	Leu	Thr	Leu	Lys	Met	Gly	Ser	Ala	Leu	Phe	Val	Lys	Lys	Glu	Leu	
204	145					150					155					160	
207	Gln	Leu	Gln	Ala	Asn	Phe	Leu	Gly	Asn		Lys	Arg	Leu	Tyr	Glu	Ala	
208					165					170					175		
211	GIu	Val	Phe	Ser	Thr	Asp	Phe	Ser		Pro	Ser	Ile	Ala	${\tt Gln}$	Ala	Arg	
212				180					185					190			
215	тте	Asn	Ser	His	Val	Lys	Lys		Thr	Gln	Gly	Lys	Val	Val	Asp	Ile	
216	T7-	a 1	195	.	_	_	_	200					205				
219	тте	GID	GTÀ	ьeu	Asp	Leu	Leu	Thr	Ala	Met	Val	Leu	Val	Asn	His	Ile	

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Input Set : A:\es.txt

Output Set: N:\CRF3\11212001\1993180.raw

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228					245					250					255	
231	Met	Met	His	Gln	Lys	Glu	Gln	Phe			Gly	Val	Asp	Thr	Glu	Leu
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243	Ser	Ala	Arg	Thr	Leu	Ile	Lys	Trp	Ser	His	Ser	Leu	Gln	Lys	Arq	Trp
244	305					310					315					320
247	Ile	Glu	Val	Phe	Ile	Pro	Arq	Phe	Ser	Ile	Ser	Ala	Ser	Tvr	Asn	Leu
248					325					330				- 1	335	
251	Glu	Thr	Ile	Leu	Pro	Lys	Met	Glv	Ile		Asn	Ala	Phe	Asp		Asn
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255	Ala	Asp	Phe	Ser	Gly	Ile	Ala	Lvs			Ser	Len	Gln		Ser	Lvg
256		-	355		-			360	5			204	365	, 41	DCI	цу
259	Ala	Thr	His	Lvs	Ala	Va 1	Len		Va 1	Ser	Glu	Glu		Thr	Glu	λla
260		370		-1-			375		, 41	001	OLU	380	Ory	1111	Giu	Ата
263	Thr		Ala	Thr	Thr	Thr		Phe	Τlם	Val	Δrσ		Lvc	λan	C111	Dro
	385					390	2,5	1110		741	395	561	цуз	rah	GIY	400
		Tvr	Phe	Thr	Val		Dhe	Δen	Δrσ	Thr		LOU	Mot	Mo+	Tla	400 ⊞b∞
268		-1-	1 110		405	501	1110	21511	пту	410	FIIC	пец	Met	Met		1111
	Asn	Lvg	Δla	Thr	Asp	Glv	Tlo	Lou	Dho		C1.,	Tvva	17.2.7	a 1	415	D
272	*****	2,5	mu	420	пър	Gry	116	Leu	425	Leu	СТУ	ьуѕ	val		ASII	PIO
	Thr	Lys	Sar	420					423					430		
276	1111	цуз	435													
	<210)> SE		NO.	. 3											
		l> LE														
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					Homo			_								
)> SE				Sap	rens	3								
						Dmo	т	T		.	~ 1	_	_			
287	met 1	GLU	Arg	Met	Leu	Pro	Leu	ьeu	Ата		GLY	Leu	Leu	Ala		Gly
		0	D	3 1 <u>-</u>	5	. .		•	_	10	_	_			15	
290	Pne	Cys	Pro	Ala	Val	Leu	Cys	HlS	Pro	Asn	Ser	Pro	Leu	Asp	Glu	Glu
	7	.	m1	20	~ 1	_		_	25					30		
292	ASI	Leu		GIn	Glu	Asn	GIn		Arg	Gly	Thr	His	Val	Asp	Leu	Gly
293	.		35					40	_				45			
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305				100					105					110		
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/993,180

DATE: 12/05/2001
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Input Set : A:\es.txt

Output Set: N:\CRF3\11212001\1993180.raw

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314	145					150	-	,			155				**** 9	160
316	Tyr	Gly	Ser	Glu	Ala			Thr	Asp	Phe			Ser	Δla	Δla	7 J 2
317	-	1			165				P	170		пор	UCI	AIU	175	
	Lys	Lvs	Leu	Tle		Asp	Tvr	Va 1	T.v.c			Thr	λνα	C117		
320	-			180		1101	-1-	,	185		O L y	1111	лту	190	-	116
	Thr	Asp	Len		Lvs	Asn	T.011	Δen			Thr	Mot	Mot			1701
323			195		2,0	1100	Lea	200	DCI	OIII	1111	Mec	205		ьeu	Val
	Asn	Tvr		Phe	Phe	Lvs	Δla		Trn	Glu	Mot	Dro			Dro	Cln
326		210				_15	215			GIU	Hec	220	riie	ASP	PIO	GIII
	Asp		His	Gln	Ser	Δrσ				Sar	Lvc		Tua	m.v.n	17 - 1	Vot
329	225			0111	DCI	230	1110	- y -	пец	DCI	235	пуз	ьуѕ	ттр	Val	мес 240
	Val	Pro	Met	Met	Ser		Hic	Иiс	Τ.Δ11	Thr		Dro	Пттъ	Dho	7 200	240
332				****	245	пси	1113	1113	Deu	250	116	PIO	тут	Pne		ASP
	Glu	Glu	Len	Ser		Thr	Va 1	Val	Glu		Twe	Пиг	πhх	C111	255	710
335				260	O _I S	* ***	VUL	VUL	265	пец	шуз	ıyı	T 111	270	ASII	Ald
	Ser	Ala	Len		T1e	Len	Pro	Δen		λen	Lare	Mot	Clu		Wa 1	C1
338			275	1 110	110	пси	110	280	GIII	кэр	пуз	Met	285	Gru	Val	Glu
	Ala	Met		T.eu	Pro	Glu	Thr			λκα	Trn	λνα		Com	T 0	a 1
341		290	Lou	LCu	110	OIU	295	neu	шуз	ALY	тър	300	ASP	ser	Leu	GIU
	Phe		Glu	Tle	Glv	Glu		ጥኒን	Т.д.1	Dro	Twe		Cor	т1.	Com	7 ~~~
344	305	5	014	110		310	пси	- y -	ьeu	FIU	315	FILE	ser	116	ser	
	Asp	Tvr	Asn	Len	Asn		Tle	L_D11	Τ.Δ11	Gln		C117	T10	C1	C1.,	320
347	F	-1		Lou	325	p	110	пси	цец	330	neu	сту	TTE	GIU		Ald
	Phe	Thr	Ser	Lvs		Δsn	Τ.Δ11	Sar	C137		Thr	C1**	7 l a	7 200	335	T a
350			DCI	340	111u	пор	пси	Del	345	116	TILL	GLY	нта	350	ASII	Leu
	Ala	Va 1	Ser		Va 1	Va 1	His	Lvc		Val	LAII	λan	Wa 1		C1.,	C1
353			355			·uı	1115	360	niu	Vul	пеа	тэр	365	Pne	GLU	GIU
355	Gly	Thr		Ala	Ser	Ala	Δla		Δla	Val	T.tre	Tlo		Tou	T ou	Cor
356	1	370			001	·····	375	1111	niu	VUI	цуз	380	1111	Leu	Leu	ser
358	Ala		Va 1	Glu	Thr	Ara		Tle	Va l	Δra	Dho		λκα	Dro	Dho	Lou
359	385					390	****	110	, 41	111 9	395	поп	ALG	FIU	rne	400
	Met	Ile	Ile	Va l	Pro		Asp	Thr	Gln	Δen		Dha	Dho	Mot	Cor	
362					405		nop		OIII	410	110	rne	riie	Mec	415	гур
	Val	Thr	Asn	Pro		Gln	Ala			410					413	
365				420	_,5	0111	211u									
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	<213				Ното	san	iens									
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	Met					Τvr	Len	Leu	Len	Len	Len	Va 1	C117	Lon	T C''	7 J ~
375	1		_~~		5 5	-1-	_cu	u	⊒Cu	10	Leu	4 CL T	атй	ьеи		чта
	Leu	Ser	His		-	Len	Hic	Va 1	Glu		Δen	C117	Glu	C^2	15 Cwa	Co=
378				20		u	-110	, u.i	25 ·	****	изр	эту	JIU	30	Cys	Set
	Asn	Ser	Ser		Gln	Gln	Tle	T.eu		Thr	Glv	Glu	G1 17		Dro	Co~
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/993,180 TIME: 11:53:54

DATE: 12/05/2001

Input Set : A:\es.txt

Output Set: N:\CRF3\11212001\I993180.raw

 $L:10\ M:270\ C:$ Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date